

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A thermal overload relay comprising:

an actuator that generates power when an abnormal state occurs in a circuit between a power source and an electrical load;

a switch that switches contacts to an on or off state according to the power transferred from the actuator; and

a case that receives the actuator and the ~~switching mechanism~~ switch, the case having a bottom surface;

wherein the actuator further comprises:

a plurality of main bimetals arranged such that a longitudinally extending direction of each main ~~bimetal~~ bimetal is generally parallel to ~~the~~ the bottom surface of the case and configured to bend when the abnormal state occurs;

a plurality of heating members, each of the heating members is wound around a corresponding main bimetal to transfer heat, occurring due to the abnormal state, to the main bimetal;

a shifter positioned to contact ends of the main bimetals and arranged in parallel to the bottom surface of the case such that the shifter is horizontally movable by the bending force of the main bimetals; and

a lever connected to the shifter that transfers the movement force from the shifter to the switch,

wherein a temperature compensation bimetal contacts an end of the lever.

2. (Previously Presented) The thermal overload relay according to claim 1, wherein the shifter comprises an upper shifter and lower shifter positioned on a vertical plane, wherein each shifter is arranged generally perpendicular to the ends of the bimetals, and in parallel to the bottom surface of the case.

3. (Previously Presented) The thermal overload relay according to claim 1, wherein the shifter comprises an upper shifter and a lower shifter positioned on a vertical plane, each shifter is arranged generally perpendicular to the ends of the main bimetals, and in parallel to the bottom surface of the case, and the shifter further comprises shafts that connect the lever to the upper shifter and the lower shifter respectively, so as to transfer the displacement amount generated by the bending force of the main bimetals to the switch.